

AMENDMENTS TO THE CLAIMS

1. A voltage standard apparatus using a voltage standard element comprising a Josephson junction array, the voltage standard apparatus comprising:

Josephson ~~junctions~~ junction devices for generating constant voltage by impressing bias current and microwave, wherein the Josephson junction devices are grouped into sections based on the nth power of 3, wherein at least one bias current terminal is provided for each of the sections;

a bias current supplying circuit for independently impressing bias current having predetermined value to the bias current terminals; and

a controlling circuit ~~for~~ that controls the bias current supplying circuit, so taht said bias current supplying circuit impressing impresses the predetermined bias current to the sections of Josephson junction array and controlling impression of microwave.

2. The voltage standard apparatus according to claim 1, further including a binary/ternary code converter wherein the controlling circuit is operated by binary code.

3. The voltage standard apparatus according to claim 2, wherein the binary/ternary code converter is provided in the controlling circuit.